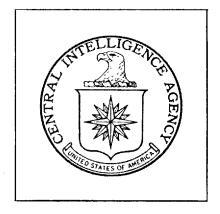
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DIRECTORATE OF INTELLIGENCE

Declass Review by NIMA / DoD

Imagery Analysis Report

Detailed Mensural Analysis of Soviet C Class SSGN

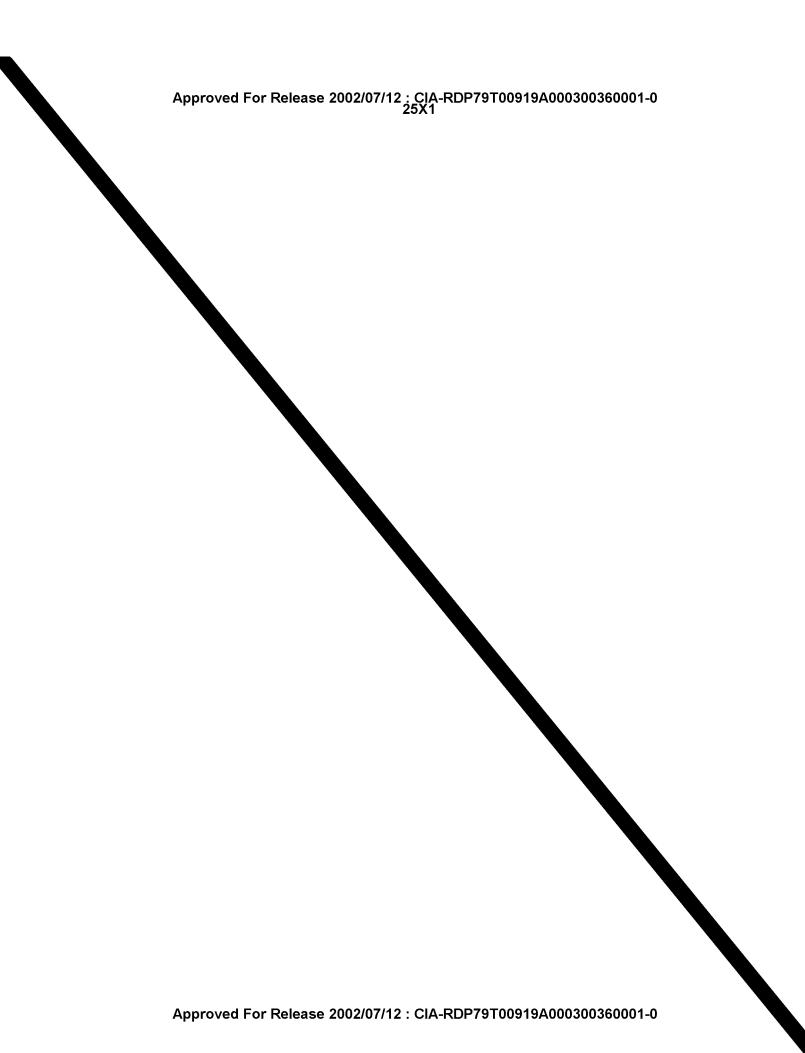
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CENTRAL INTELLIGENCE AGENCY Directorate of Intelligence Imagery Analysis Service

DETAILED MENSURAL ANALYSIS OF SOVIET C CLASS SSGN

SUMMARY

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Low altitude aerial photography and surface photography have provided tair-to-good imagery from which IAS has made a detailed mensural analysis of the Soviet C Class Nuclear Powered Guided Missile Submarine (SSGN).

The principal objective of this report is to provide scale drawings showing as much of the submarine's exterior details as possible from the referenced photography.

NOTE: This report was prepared in direct support of the Central Intelligence Agency.

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	DISCUSSION	
25X1	Soviet C Class SSGN was photographed by a Almost 100 tair-to-good quality photographs were taken of this surfaced unit while it rendezvoused with two Soviet scientific research ships in the area. All mensuration in this report, except for that of the	25X1
25X1	forward weapons system, was derived exclusively from the photographs. Measurements of the forward weapons system were obtained in part from these photographs but mostly from slightly better quality photographs of a C Class unit The resultant analysis is reflected in the scale drawings in Figure 1.	25X1 25X1
	All dimensions in this report were provided by the Photogrammetric Division of NPIC. Neither of the two sets of photographs was of sufficient quality to accurately discern all the detail believed to be present on the C Class submarine. Due to the difficulty of establishing an endpoint for the waterline bow, the overall waterline length of the submarine (295 feet) is considered accurate	
25X1	All details depicted by solid	
25X1	Tines in Figure I are believed to be accurate Details which could not be clearly seen are indicated by dashed lines.	25X1

The mensuration procedure used involved a multiphoto three dimensional solution. The relative configuration of the submarine was first established with the aid of the NPIC computer-derived SHAPE program for small format photography. The actual size, or scale, of the three dimensional model of the submarine was then determined using the fifth-of-a-meter vertical separation between the individual fore and aft draft markings painted on the outside of the submarine.

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			25X1		
		REFERENCES			
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	Requirement				
	C-S19 -85,997				
	IAS Project				
	050947				

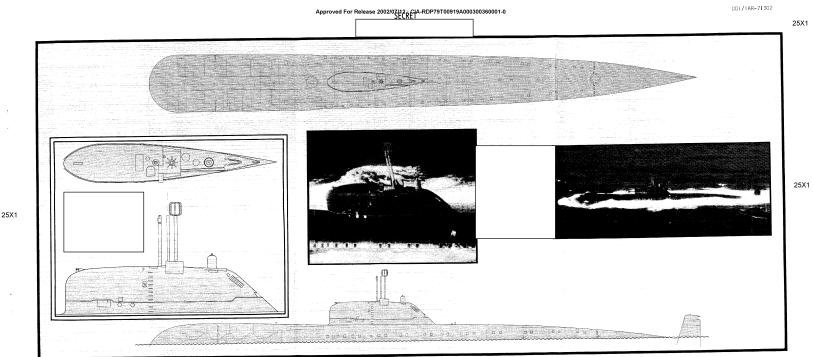


FIGURE 1. LINE DRAWING OF C CLASS SSGN WITH PHOTOGRAPHIC INSERTS.

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